Thomas Bruun Director

COUNTY OF PRINCE WILLIAM

5 County Complex Court, Suite 250 Prince William, Virginia 22192-5308 (703) 792-6254 Metro 631-1703 Fax (703) 792-4617 DEPARTMENT OF PUBLIC WORKS

Solid Waste Division

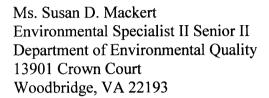
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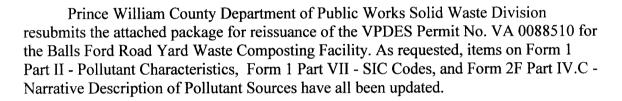
APR 0 1 2015

REGIONAL OFFICE

March 30, 2015



Dear Ms. Mackert:



Please find the enclosed packet containing an original and 1 copy of the amended permit application as requested by your office.

If you have any questions or additional information is needed, please call Bernie Osilka at (703) 792-7966 or myself at (703) 792-6254.

Sincerely,

Thomas J. Smith, P.E. Solid Waste Division Chief

Attachment: 1. VPDES Permit No. VA0088510

BCO/bco/VPDES-Balls Ford Road

Thomas Bruun Director

COUNTY OF PRINCE WILLIAM

5 County Complex Court, Suite 250 Prince William, Virginia 22192-5308 (703) 792-6254 Metro 631-1703 Fax (703) 792-4617 DEPARTMENT OF PUBLIC WORKS

Solid Waste Division

March 13, 2015

Ms. Susan D. Mackert Environmental Specialist II Senior II Department of Environmental Quality 13901 Crown Court Woodbridge, VA 22193



Dear Ms. Mackert:

Prince William County Department of Public Works Solid Waste Division submits the attached package for reissuance of the VPDES Permit No. VA 0088510 for the Balls Ford Road Yard Waste Composting Facility. Two original signed copies of the application are included.

If you have any questions or additional information is needed, please call Bernie Osilka at (703) 792-7966 or myself at (703) 792-6254.

Sincerely,

Thomas J. Smith, P.E. Solid Waste Division Chief

Attachments: 1. EPA General From 1

1. LI A General I fon

2. EPA Form 2F

3. Five related items as required

BCO/bco/VPDES-Balls Ford Road

	ype in the unshad	ed areas only.					Form Approved. OMB No. 2040-0	086.			
FORM	I. EPA I.D. NUMBER										
1	\$EPA	GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)							T/A	c	
GENERAL		(Read the "General Instructions" before starting)					13	14	D 15		
LABEL	ITEMS		GENERAL INSTRUC								
· · · · · · · · · · · · · · · · · · ·		1					If a preprinted label has been designated space. Review the inform	formation carefully; if any of it			of it
I. EPA I.D. I	NUMBER		is incorrect, cross through it and enter appropriate fill-in area below. Also, if an						the pre	printed	data
III. FACILITY	NAME	PLEASE	is absent (the area to the left of the PLEASE PLACE LABEL IN THIS SPACE information that should appear), please						el spa	ce lists	s the
V. FACILITY	MAILING		-				fill-in area(s) below. If the label is oneed not complete Items I, III, V, a	complete and correct, you			, you
ADDRES							must be completed regardless). Con	nplete a	all item:	s if no	label
VI. FACILITY	LOCATION	<u> </u>					has been provided. Refer to the ins descriptions and for the legal autho				
II. POLLUTANT CHARACTERISTICS											
				cead t	e cubmit an	it analisation forms to t	the EPA. If you answer "yes" to ar		41		
you answer "no	m and the suppler o" to each questio	mental form listed in the pare	nthesis f these	is follov e forms	wing the que s. You may a	estion. Mark "X" in the box in answer "no" if your activity is e	the EPA. If you answer "yes" to ar the third column if the supplemer excluded from permit requirement	stal for	m ic a	ttache	d If
			VES	Mark					·Mark		
	SPECIFIC QU		YES	NO	FORM ATTACHED	SPECIFIC	QUESTIONS	YES	NO	FOR ATTAC	
A. Is this facility	y a publicly own	ned treatment works which ers of the U.S.? (FORM 2A)		X			(either existing or proposed)				
IDSUILS III G G	ISCHAIGE IO WALL	ITS OF THE U.S.! (FUNIVIZA)					animal feeding operation or tion facility which results in a		X		
			16	17	18	discharge to waters of the	he U.S.? (FORM 2B)	19	20	21	
		tly results in discharges to n those described in A or B	$ \mathbf{x} $		\times		(other than those described in A sult in a discharge to waters of		X		
above? (FOF		i tilogo desembed in A. C. 2	22	23	24	the U.S.? (FORM 2D)	suit in a discharge to waters or	25	26	27	
E. Does or wi	ill this facility tr	reat, store, or dispose of				F. Do you or will you inje	ect at this facility industrial or			21	
hazardous v	wastes? (FORM 3	3)		X			unicipal effluent below the lowermost stratum				
		containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)				31	32	33			
		s facility any produced water				H. Do you or will you inject					
or other fluids which are brought to the surface in connection with conventional oil or natural gas production.				X			of sulfur by the Frasch process, als, in situ combustion of fossil		\checkmark		
inject fluids	used for enhance	ed recovery of oil or natural				fuel, or recovery of geothe			\wedge		
gas, or inject (FORM 4)	t fluids for stora	ige of liquid hydrocarbons?									_
<u> </u>	a proposed stat	ionary source which is one	34	35	36	I is this facility a propose	ed stationary source which is	37	38	39	
of the 28 ind	ustrial categories	listed in the instructions and		X		NOT one of the 28 ind	fustrial categories listed in the				
		00 tons per year of any air Clean Air Act and may affect			i	instructions and which w	ill potentially emit 250 tons per egulated under the Clean Air Act				
	in an attainment		40	41	42	and may affect or be lo	ocated in an attainment area?	43	44	45	i
						(FORM 5)					
III. NAME OF								-,		3.30	17 73
1 SKIP Ba	ills Ford	Road Yard Waste	Co	mpo	st Fac	ility''''		' <u> </u>		n in sec	
15 16 - 29 30								69	च्य	1 N	
IV. FACILITY	CONTACT										
		A. NAME & TITLE (last,	first, d	k title)			B. PHONE (area code & no.)		<u> </u>	1.	**
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Woodbr:	idgė ''		, ,	. 1	1 1 1	' ' VA 2:	2192				
15 16						40 41 42 47	51		296 03	101. T.	: (٤)
VI. FACILITY L	OCATION										
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		C. CITY OR TOWN	$\overline{}$		177		E. ZIP CODE F. COUNTY CO	DE (ij	knowr	<i>i</i>)	
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15 16						40 41 42 47	£4 £0				

Please print or type in the unshaded areas only.

CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority)	
A. FIRST c (specify) Composting and Mulching Operation	B. SECOND (specify) N/A
7 2875 (specify) composering and nationing operation	7 N/N (specify) N/A
15 16 - 19	15 16 - 19
C. THIRD	D. FOURTH
7 N/A (specify) N/A	7 N/A (specify) N/A
15 16 - 19	15 16 - 19
VIII. OPERATOR INFORMATION	
A. NAME	B. Is the name listed in Item
8 Eastern Clearing	VIII-A also the owner?
15 16	☐ YES ☑ NO
C. STATUS OF OPERATOR (Enter the appropriate letter into the	
S = STATE M = PUBLIC (other than federal or state) D	
P = PRIVATE O = OTHER (specify)	A (540) 439-4163
66	15 6 - 18 19 - 21 22 - 2
E. STREET OR P.O. BOX	
	1
26	55
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
B Bealeton	Is the facility located on Indian lands?
1-1	VA 22712
15 16	40 41 42 47 - 51
X. EXISTING ENVIRONMENTAL PERMITS	
	nissions from Proposed Sources)
c T	
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
$\begin{vmatrix} c & \uparrow & \downarrow \\ g & U & N/A \end{vmatrix}$	
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15 16 17 18 30 15 16 17 18 C. RCRA (Hazardous Wastes)	50 E OTHER (*****/C)
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Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

D. Receiving Water

(name)

Unnamed tributary to Broad Run

2F SEPA

Outfall Location

A. Outfall Number

(list)

001

U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

C. Longitude

33'

30"

77°

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

30"

B. Latitude

47'

380

II. Improvements					
			y implementation schedule for the construction, upgrading n may affect the discharges described in this application? The pliance schedule letters, stipulations, court orders, and gran		
1. Identification of Conditions,		2. Affected Outfalls			Final ance Date
Agreements, Etc.	number	source of discharge	Brief Description of Project	a. req.	b. proj.
27/2	 				
N/A		N/A	N/A		
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EPA Form 3510-2F (1-92)

III. Site Drainage Map

Page 1 of 3

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges

IV. Narra	ative Description of Pollutan	nt Sources				
draine	nch outfall, provide an estimate of the area (i and by the outfall.		es (including p	paved areas and building roofs) drained to the	outfall, and an estima	ate of the total surface area
Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surfac (provide units)	æ	Total Area Drained (provide units)
001	3 Acres	17 Acres	N/A	N/A	N	/A
to stor	rm water; method of treatment, storag water runoff; materials loading and ad	ge, or disposal; past and pre-	esent materi	It three years have been treated, stored als management practices employed to and frequency in which pesticides, herb	o minimize contact	by these materials with
Leaves, c	grass, and brush are received ed material segregated. This	d at the site, process material is loaded in	sed and p n trailer	out in windrows. The material es and taken to the lnadfill.	is screened wi The finished p	th bags and roduct is sold.
The facil	lity is bermed so that the se	tormwater is channeled	d away fr	om the operation.		
Pesticide	es, herbicides, soil conditi	oners and fertiliizers	s are not	applied in the processing th	e material.	
descr of any	ription of the treatment the storm wate y solid or fluid wastes other than by dis	er receives, including the sch	uctural and redule and to	nonstructural control measures to redu ype of maintenance for control and trea	ice pollutants in sto atment measures ar	nd the ultimate disposal
Outfall Number	r		Freatment			List Codes from Table 2F-1
001	controlled outlet in the	retention pond the wat ponds are inspected or	ter disch	t then flows into a retention ages off site. Air diffusers ar basis. Employees are train	are installed	1-U, 4-A
V. Nonst	tormwater Discharges					
A. I certin	fy under penalty of law hat the outfall tormwater discharged from these outfall	I(s) covered by this application	on have bee	en tested or evaluated for the presence nying Form 2C or From 27 application for	of nonstormwater or the outfall.	discharges, and that all
Name and	Official Title (type or print)	Signature 4		n // //	Date Sig	•
Thomas J	Smith, SW Division Chief	Khoru	44	Kult	3/2	7/15
B. Provic	de a description of the method used, t	the date of any testing, and th	۱ ne onsite dra	sinage points that were directly observed	d during a test.	
A grab sa	ample was taken for the prese	ence of nonstorm water	c dischard	ge on Feburary 23,2015.		
VI. Signif	ficant Leaks or Spills					
Provide approxim	existing information regarding the himate date and location of the spill or lea	istory of significant leaks or eak, and the type and amount	spills of to t of material	xic or hazardous pollutants at the fac released.	ility in the last thre	e years, including the
No signif	icant leaks or spills have o	occured in the past fi	ve years		W	

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) VA0088510

VII. Discharge Information									
	oceeding. Complete one set of tables for each outfall re included on separate sheets numbers VII-1 and VI		space provided.						
E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?									
Yes (list all such pollutants below)									
001 Oil and Grease									
			•						
VIII. Biological Toxicity Testing I	Data								
Do you have any knowledge or reason to relation to your discharge within the last 3	believe that any biological test for acute or chronic to	oxicity has been made on any of you	r discharges or on a receiving water in						
Yes (list all such pollutants b		No (go to Section IX)							
Biological Toxicity test has been	n conducted since 1995 for Outfall 001.								
IX. Contract Analysis Informatio	on l								
	VII performed by a contract laboratory or consulting	firm?							
	and telephone number of, and pollutants laboratory or firm below)	☐ No (go to Section X)							
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed						
Air Water & Soil	1941 Reymet Road, Richmond Va, 23230	804-358-8295	TSS,BOD,TKN,COD, and other pollutants as required.						
Coastal Bioanalysts, Inc	6400 Enterprise Court, Gloucester, Va 23061	804-694-8285	Acute Toxicity						
Environmental Systems Services, Ltd. (ESS)	218 Norht Main Street, Culpepper, VA 22701	540-825-6660	TSS,BOD,TKN,COD, and other pollutants as required.						
X. Certification									
that qualified personnel properly gather ar directly responsible for gathering the info	cument and all attachments were prepared under my nd evaluate the information submitted. Based on my irmation, the information submitted is, to the best of ng false information, including the possibility of fine ar	inquiry of the person or persons who my knowledge and belief, true, acc	manage the system or those persons curate, and complete. I am aware that						
A. Name & Official Title (Type Or Print)									
Thomas Bruun, Director Public Works (703) 792-6253									
C. Signature	_	D. Date Signed							
		3/2/15							

VII. Discharge information (Continued from page 3 of Form 2F)

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

		um Values de units)		rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5.0 mg/L	N/A	<5.0 mg/L		1	Yard Waste
Biological Oxygen Demand (BOD5)	20.2 mg/L		20.2 mg/L		1	Yard Waste
Chemical Oxygen Demand (COD)	324 mg/L		324 mg/L		1	Yard Waste
Total Suspended Solids (TSS)	43.0 mg/L		43.0 mg/L		1	Yard Waste
Total Nitrogen	11.8 mg/L		11.8 mg/L		1	Yard Waste
Total Phosphorus	1.10 mg/L		1.10 mg/L		1	Yard Waste
рН	Minimum 7.41	Maximum 7.41	Minimum 7.41	Maximum 7.41		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values ide units)	Ave (in	rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
N/A						
		·				
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			· · · · · · · · · · · · · · · · · · ·			

				<u> </u>		
					1	
					<u> </u>	
·		·			1	l

Continued	£	46-	

req	uirements. Complete	wn in Table 2F-2, 2F-3. e one table for each ou	, and 2r-4 that yo tfall.	ou know or have reason to	believ	e is presen	it. See the instruc	tions for additional details and
	Maximu	ım Values de units)	Ave	erage Values clude units)	N	umber		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	, S	of Storm Events ampled	Sou	urces of Pollutants
		p		, , , , , , , , , , , , , , , , , , ,				
			l					
				÷		·		
								,
			N/A					
]					
M-14								
Part D - Pro	ovide data for the sto	orm event(s) which resu	ulted in the maxim	um values for the flow wei	ahted (composite :	sample.	
	_		— · · · · · · · · · · · · · · · · · · ·	4.	Ĭ		5.	_
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rain during storn (in inch	n event	Number of hours betwee beginning of storm meas and end of previous measurable rain ever	ured	ra (galloi	flow rate during in event in s/minute or ecify units)	6. Total flow from rain event (gallons or specify units)
		N/A						
	4			L				
7. Provide a	description of the me	ethod of flow measuren	nent or estimate.					
		N	I/A					



PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Virginia Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9VAC25-31-290.C.2.

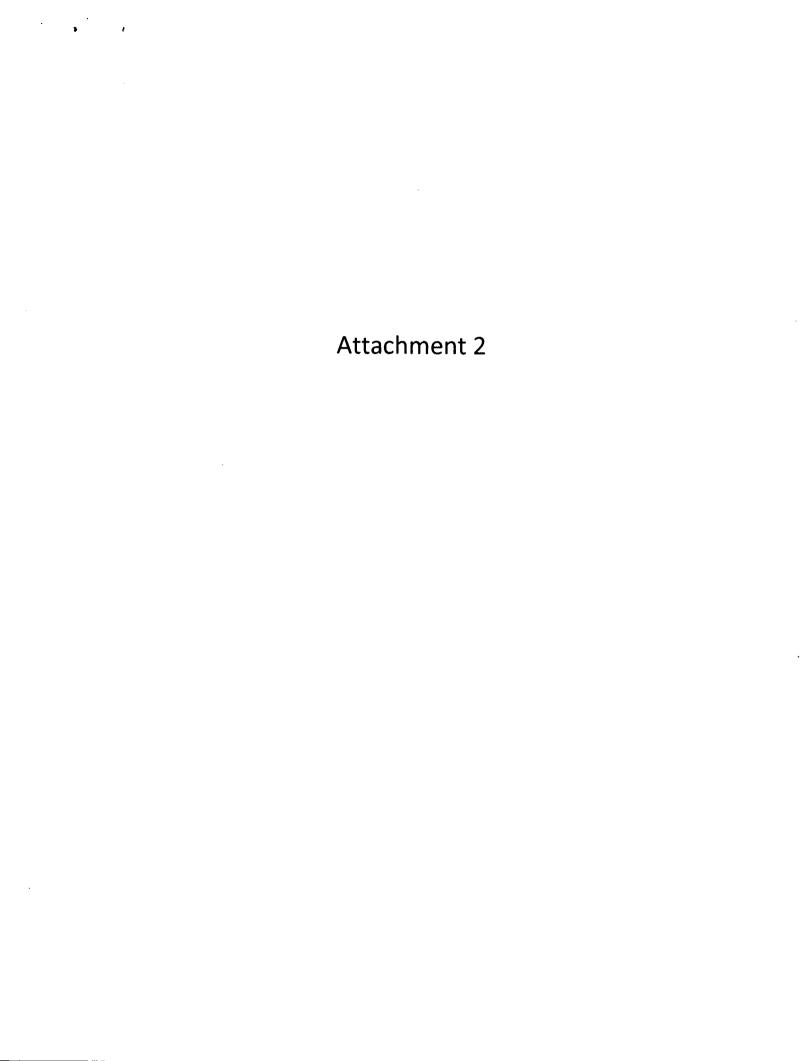
Agent/Department to be billed:	Mr. Thomas Smith / Solid Waste Division Chief
Owner:	Prince William County
Applicant's Address:	5 County Complex Court, Suite 250
	Woodbridge, VA 22192
Agent's Telephone Number:	(703) 792-6254
Authorizing Agent:	Thorne Suit

VPDES Permit - VA0088510 Facility Name - Balls Ford Road Yard Waste Composting Facility

Please return to:

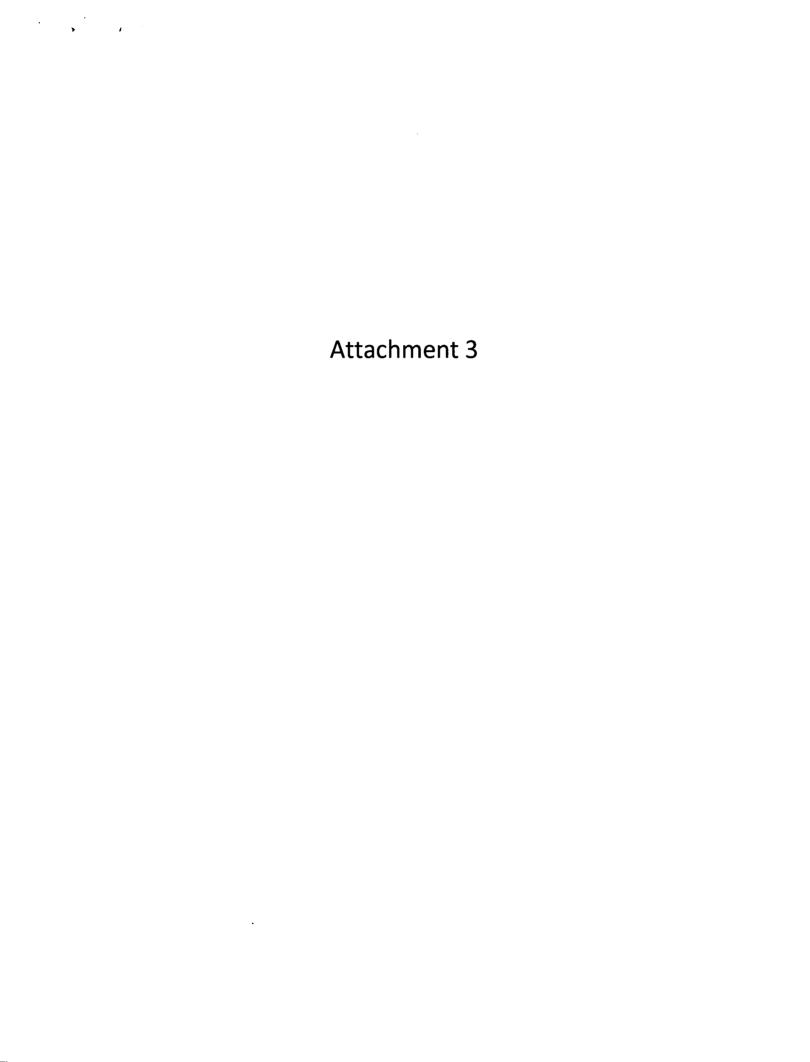
Susan Mackert VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453

Fax: (703) 583-3821



VPDES Permit Application Addendum

1. Entity to whom the permit is to be issue	d: Prince William County Board of Supervisors
Who will be legally responsible for the wastewated not be the facility or property owner.	r treatment facilities and compliance with the permit? This may or may
2. Is this facility located within city or tow	n boundaries? Yes No x
3. Provide the tax map parcel number for	the land where the discharge is located. Attached
4. For the facility to be covered by this per	mit, how many acres will be disturbed during the next
five years due to new construction activitie	
5. What is the design average effluent flow	of this facility? 0.03 MGD
For industrial facilities, provide the max	x. 30-day average production level, include units:
In addition to the design flow or production other discharge flow tiers or production If "Yes", please identify the other flow ties.	
Please consider the following questions for both the expand operations during the next five years? Is you	he flow tiers and the production levels (if applicable): Do you plan to our facility's design flow considerably greater than your current flow?
5. Nature of operations generating wastew Rainfall	ater:
0 % of flow from domestic connections	s/sources
Number of private residences to be served	
0 % of flow from non-domestic connec	tions/sources
7. Mode of discharge : Continuous Describe frequency and duration of inte When it rains there usually is a discha	X Intermittent Seasonal sermittent or seasonal discharges: arge. But in dry months there sometimes is no discharge.
	ing stream at the point just above the facility's
Permanent stream, never dry	
Intermittent stream, usually flowing,	•
X Ephemeral stream, wet-weather flow	•
Effluent-dependent stream, usually or	
Lake or pond at or below the discharge	ge point
Other:	
. Approval Date(s): O & M Manual 12/11/2014	Sludge/Solide Management Blom N/A
	Sludge/Solids Management Plan N/A
Have there been any changes in your opera	tions or procedures since the above approval dates? Yes No X





The information contained on this page is not to be construed or used as a legal description. Map information is believed to be accurate but accuracy is not guaranteed. Any errors or omissions should be reported to the Prince William County Geographic Information Systems Division of the Department of Information Technology. In no event will Prince William County be liable for any damages, including loss of data, lost profits, business interruption, loss of business information or other pecuniary loss that might arise from the use of this map or the information it contains.

Attachment 4



Certificate of Analysis

Final Report

Laboratory Order ID 15B0303

Client Name:

Prince William County

Date Received:

February 24, 2015 8:00

5 County Complex Court Suite 250

Date Issued:

March 2, 2015 15:42

Prince William, Virginia 22192

Project Number:

[none]

Submitted To:

Bernard C. Osilka

Purchase Order:

Client Site I.D.: Balls Ford Road, Pond 1

Enclosed are the results of analyses for samples received by the laboratory on 02/24/2015 08:00. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

60/0/a15

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.







Certificate of Analysis

Final Report

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Client Name:

Prince William County

5 County Complex Court Suite 250

Prince William Virginia, 22192

Submitted To:

Bernard C. Osilka

Project Number:

Purchase Order:

Date Received:

Date Issued:

Client Site I.D.:

Balls Ford Road, Pond 1

Number: [none]

February 24, 2015 8:00

March 2, 2015 15:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID Laboratory ID		Matrix	Date Sampled	Date Received
Pond 1	15B0303-01	Waste Water	02/23/2015 13:00	02/24/2015 08:00



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Laboratory Order ID 15B0303

Client Name:

Prince William County

Balls Ford Road, Pond 1

5 County Complex Court Suite 250

Prince William Virginia, 22192

Submitted To: Client Site I.D.:

Bernard C. Osilka

Date Received: Date Issued:

February 24, 2015 8:00

March 2, 2015 15:42

[none]

Project Number:

Purchase Order:

-Analytical Results Sample I.D. Pond 1

Laboratory Sample ID:

15B0303-01

02/23/2015 13:00 Date/Time Sampled: Reporting Sample Prep Analysis Limit Date/Time Date/Time Qual D.F. Analyst Result Parameter Samp ID Method Wet Chemistry Analysis 01 EPA350.1 R2.0 3.05 mg/L 0.10 03/02/15 13:36 03/02/15 13:36 LAO Ammonia as N 03/02/15 14:05 DLF BOD 01 SM22 20.2 mg/L 2.0 02/25/15 09:33 5210B-2011 LAO COD 01 SM22 324 mg/L 100 02/27/15 11:00 02/27/15 11:00 5220D-2011 <5.0 mg/L 5.0 1 02/25/15 12:58 02/25/15 12:58 TLA Oil and Grease 01 **EPA1664A** Phosphorus, Total 01 SM22 1.10 mg/L 0.10 02/24/15 10:20 02/24/15 10:20 TLA 4500PE-2011 01 SM22 43.0 mg/L 1.0 02/24/15 10:37 02/24/15 10:37 LBH TSS 2540D-2011

Analytical Summary

Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
		Preparation Method:	No Prep Wet Chem	
5.00 mL / 25.0 mL	SM22 4500PE-2011	BYB0428	SYB0516	AA50091
200 mL / 200 mL	SM22 2540D-2011	BYB0441	SYB0533	
980 mL / 980 mL	EPA1664A	BYB0456	SYB0567	
300 mL / 300 mL	SM22 5210B-2011	BYB0465	SYB0559	
0.200 mL / 2.00 mL	SM22 5220D-2011	BYB0487	SYB0575	AA50076
6.00 mL / 6.00 mL	EPA350.1 R2.0	BYC0015	SYC0013	AC50004
	5.00 mL / 25.0 mL 200 mL / 200 mL 980 mL / 980 mL 300 mL / 300 mL 0.200 mL / 2.00 mL	Initial / Final Method 5.00 mL / 25.0 mL SM22 4500PE-2011 200 mL / 200 mL SM22 2540D-2011 980 mL / 980 mL EPA1664A 300 mL / 300 mL SM22 5210B-2011 0.200 mL / 2.00 mL SM22 5220D-2011	Initial / Final Method Batch ID 5.00 mL / 25.0 mL SM22 4500PE-2011 BYB0428 200 mL / 200 mL SM22 2540D-2011 BYB0441 980 mL / 980 mL EPA1664A BYB0456 300 mL / 300 mL SM22 5210B-2011 BYB0487 0.200 mL / 2.00 mL SM22 5220D-2011 BYB0487	Initial / Final Method Batch ID Sequence ID 5.00 mL / 25.0 mL SM22 4500PE-2011 BYB0428 SYB0516 200 mL / 200 mL SM22 2540D-2011 BYB0441 SYB0533 980 mL / 980 mL EPA1664A BYB0456 SYB0567 300 mL / 300 mL SM22 5210B-2011 BYB0465 SYB0559 0.200 mL / 2.00 mL SM22 5220D-2011 BYB0487 SYB0575



Certificate of Analysis

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Date Issued:

February 24, 2015 8:00

March 2, 2015 15:42

5 County Complex Court Suite 250 Prince William Virginia, 22192

Bernard C. Osilka

Project Number:

Date Received:

[none]

Submitted To: Client Site I.D.:

Balls Ford Road, Pond 1

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result .	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYB0428 - No Prep Wet Chem										
Blank (BYB0428-BLK1)				Prepared	& Analyzed	i: 02/24/2	015	<u>.</u>		
Phosphorus, Total	<0.02 mg/L	0.02	mg/L	•	-					
LCS (BYB0428-BS1)				Prepared	& Analyzed	1: 02/24/2	015			
Phosphorus, Total	0.50 mg/L	0.02	mg/L	0.500	•	101	80-120			
LCS Dup (BYB0428-BSD1)				Prepared	& Analyzed	i: 02/24/2	015			
Phosphorus, Total	0.52 mg/L	0.02	mg/L	0.500		104	80-120	3.32	20	
Batch BYB0441 - No Prep Wet Chem										
Blank (BYB0441-BLK1)				Prepared	& Analyzed	1: 02/24/2	015			
TSS	<1.0 mg/L	1.0	mg/L							
LCS (BYB0441-BS1)				Prepared	& Analyzed	1: 02/24/2	015			
TSS	95.0 mg/L	1.0	mg/L	100		95.0	80-120			
LCS Dup (BYB0441-BSD1)				Prepared	& Analyzed	i: 02/24/2	015			
TSS	91.0 mg/L	1.0	mg/L	100		91.0	80-120	4.30	10	
Duplicate (BYB0441-DUP1)	Sour	ce: 15B0320	0-02	Prepared	& Analyzed	i: 02/24/2	015			
TSS	1.5 mg/L	1.0	mg/L	1	.8 mg/L			15.4	30	
Batch BYB0456 - No Prep Wet Chem	···									
Blank (BYB0456-BLK1)				Prepared	& Analyzed	i: 02/25/2	015			
Oil and Grease	<5.0 mg/L	5.0	mg/L							



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5 County Complex Court Suite 250

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March 2, 2015 15:42

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road, Pond 1

Purchase Order:

Wet Chemistry Analysis - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Batch BYB0456 - No Prep Wet Chem										
LCS (BYB0456-BS1)				Prepared	& Analyze	d: 02/25/2	2015			
Oil and Grease	40.4 mg/L	5.0	mg/L	40.0		101	78-114			
LCS Dup (BYB0456-BSD1)				Prepared	& Analyzed	d: 02/25/2	2015			
Oil and Grease	39.6 mg/L	5.0	mg/L	40.0		99.0	78-114	2.00	20	
Duplicate (BYB0456-DUP1)	Sour	ce: 15B0303	3-01	Prepared	& Analyzed	d: 02/25/2	2015			
Oil and Grease	<5.0 mg/L	5.0	mg/L	<	<5.0 mg/L			NA	20	
Matrix Spike (BYB0456-MS1)	Sour	ce: 15B0292	2-01	Prepared	& Analyze	d: 02/25/2	2015			
Oit and Grease	39.9 mg/L	5.0	mg/L	40.0	<5.0 mg/L	99.8	78-114			
Batch BYB0465 - No Prep Wet Chem Blank (BYR0465-BLK1)				Prepared	: 02/25/201	5 Analyze	ed: 03/02/2	015	·	
Blank (BYB0465-BLK1)	<2.0 mg/L	2.0	mg/L	Prepared	: 02/25/201	5 Analyze	ed: 03/02/2	<u> </u>		BlkJ
LCS (BYB0465-BS1)	_ _	.		Prepared	· 02/25/201	5 Analyz	ed: 03/02/2	015		
BOD	195 mg/L	2.0	mg/L	198	. 021201201		84.6-115.4	010		
Duplicate (BYB0465-DUP1)	Sour	ce: 15B0320)-03	Prepared	: 02/25/201	5 Analyz	ed: 03/02/2	015		
BOD	8.4 mg/L	2.0	mg/L	•	7.8 mg/L	•		8.00	20	
Batch BYB0487 - No Prep Wet Chem										
Blank (BYB0487-BLK1)										
				<u>Prepared</u>	& Analyzed	d: 02/27/2	<u> 2015 </u>			



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Date Received:

February 24, 2015 8:00

5 County Complex Court Suite 250 Prince William Virginia, 22192

Date Issued:

March 2, 2015 15:42

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road, Pond 1

Purchase Order:

.....

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYB0487 - No Prep Wet Chem					,					
LCS (BYB0487-BS1)				Prepared	& Analyze	d: 02/27/20	015			
COD	54.1 mg/L	10	mg/L	50.0		108	80-120			
LCS Dup (BYB0487-BSD1)				Prepared	& Analyze	d: 02/27/20	015			
COD	51.5 mg/L	10	mg/L	50.0	•	103	80-120	4.90	20	
Matrix Spike (BYB0487-MS1)	Sour	ce: 15B0311	-02	Prepared	& Analyze	d: 02/27/20	015			
COD	314 mg/L	20.0	mg/L	100 2	211 mg/L	102	70-130			
Matrix Spike Dup (BYB0487-MSD1)	Sour	ce: 15B0311	-02	Prepared	& Analyze	d: 02/27/20	015		· · · · · · · · · · · · · · · · · · ·	***
COD	301 mg/L	20.0	mg/L	100 2	211 mg/L	89.4	70-130	4.22	20	
Batch BYC0015 - No Prep Wet Chem Blank (BYC0015-BLK1)				Prepared	& Analyze	d: 03/02/2	015			
Ammonia as N	<0.10 mg/L	0.10	mg/L							
LCS (BYC0015-BS1)				Prepared	& Analyze	d: 03/02/2	015			
Ammonia as N	1.86 mg/L	0.1	mg/L	2.00		93.2	90-110			
LCS Dup (BYC0015-BSD1)										
				Prepared	& Analyze	d: 03/02/20	015			
Ammonia as N	1.87 mg/L	0.1	mg/L	Prepared 2.00	& Analyze	d: 03/02/20 93.6	<u>90-110</u>	0.375	20	
,	•	0.1 ce: 15B037 5	•	2.00	& Analyze	93.6	90-110	0.375	20	
Ammonia as N	•		•	2.00 Prepared	•	93.6	90-110	0.375	20	M
Ammonia as N Matrix Spike (BYC0015-MS1)	Sour 5.49 mg/L	ce: 15B0375	5-03 mg/L	2.00 Prepared 2.00	& Analyze	93.6 d: 03/02/20 112	90-110 015 90-110	0.375	20	M



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February 24, 2015 8:00

5 County Complex Court Suite 250 Prince William Virginia, 22192 Date Issued:

March 2, 2015 15:42

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road, Pond 1

Purchase Order:

[...

Wet Chemistry Analysis - Quality Control

Analyte Batch BYC0015 - No Prep Wet Chem	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Matrix Spike Dup (BYC0015-MSD1)	Sou	rce: 15B037	5-03	Prepared	l & Analyzed	d: 03/02/20	015			
Ammonia as N	5.42 mg/L	0.10	mg/L	2.00	3.25 mg/L	108	90-110	1.32	20	
Matrix Spike Dup (BYC0015-MSD2)	Sou	ırce: 15B0379	9-03	Prepared	l & Analyzed	d: 03/02/20	015			
Ammonia as N	2.60 mg/L	0.10	mg/L	2.00	0.47 mg/L	106	90-110	1.79	20	



Certificate of Analysis

Final Report

Laboratory Order ID 15B0303

Client Name:

Prince William County

February 24, 2015 8:00

5 County Complex Court Suite 250 Prince William Virginia, 22192

Date Received: Date Issued:

March 2, 2015 15:42

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road, Pond 1

Purchase Order:

Certified Analyses included in this Report

Analyte		Certifications	
EPA1664A in Non-Potable Water			
Oil and Grease		VELAP,NC	
EPA350.1 R2.0 in Non-Potable Water			
Ammonia as N		VELAP,NC	
SM22 2540D-2011 in Non-Potable Water			
TSS		VELAP,NC	
SM22 4500PE-2011 in Non-Potable Water			
Phosphorus, Total		VELAP,NC	
SM22 5210B-2011 in Non-Potable Water			
BOD		VELAP,NC	
SM22 5220D-2011 in Non-Potable Water			
COD		VELAP,NC	
Code	Description	Lab Number	Expires
VELAP	NELAC-Virginia Certificate #7626	460021	06/14/2015



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Final Report

Laboratory Order ID 15B0303

Client Name:

Prince William County

5 County Complex Court Suite 250

Prince William Virginia, 22192

Submitted To: Client Site I.D.: Bernard C. Osilka

Balls Ford Road, Pond 1

Date Received:

Date Issued:

February 24, 2015 8:00

March 2, 2015 15:42

[none]

Project Number: Purchase Order:

Summary of Data Qualifiers

Method Blank is less than the LOQ, but does not pass the 0.2 mg/L criteria. Blk

Matrix spike recovery is outside established acceptance limits М RPD Relative Percent Difference

Qualifers Qual

-RE Denotes sample was re-analyzed

Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section. D.F.



1941 REYMET ROAD **RICHMOND, VIRGINIA 23237** (804) 358-8295 PHONE (804)358-8297 FAX

Chain of Custody Form #: D1331 Rev. 1.0 Effective: Feb 14, 2014

.... v 14.xls

LABORATO	RIE	:3, 11	NC.				CHA	N OF	CUS	10	ץע								PAGE	OF
COMPANY NAME: PWC BR	SIL	5	SW.	ROAD	IN/	OICE TO:	\in		51	M	٤			PROJECT NAME/Quote #: BAGUS FORM CARE				CARD		
CONTACT: BERNIE C	12	LK	A	·	IN\	OICE CO	NTAC	T: 🚄		-			SI	TE NAN	1E: BA	علله	Falm	PAR	o, Pom	1
ADDRESS: 13000 BALLS	Fr	31.DEC)	RAD	INV	OICE AD	DRES	S: €					PF	PROJECT NUMBER:						
PHONE #: 703-792.7966	M	ANA	८ ऽऽ।	As, VA		OICE PH							P.0	O. #:						
FAX#: 703-792-4617				EMAIL: E	3051L	IM @	PWC	Goil.	ons				Pro	etreatm	ent Pro					
ls sample for compliance reportin	g?	YE	3	NO		Is sample	from a	chlori	nated a	gpp	ly?	YES	NO				PWS I	.D. #:		
SAMPLER NAME (PRINT):	01	50	oj	210	SA	MPLER SI	GNAT	URE:	/\~		0/	VZi	41	£Z			Turn /	Around	d Time:	Day(s)
Matrix Codes: WW≃Waste Water/Storm Water	er Gl	N=G:	round	Water DW=0	Orinking '	Water S=Soil	Solids C	R=Organ	ic A≃Ai	r WP:	Wipe O	T=Other								MENTS
			(SI									ANA	ALYSI	S/(PR	ESER	VATIVI	Ξ)		C=Hydrochloric A	odes: N=Nitric Acid cid S=Sulfuric Acid
CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	155	1 Bob	940	TOT PNOS/COD	PTOTAL/COD	And			Acid Z¤Zine Ai Thiosulfate Thiosulfate	oxide A=Ascorbic cetate T=Sodium M=Methanol PRESERVATIVE(S). CHECKS or PUMP (Umin)
1) POND 2	X					3/23/15	13!0		WW	6		/						<u> </u>		
2)		Ш				, ,				\sqcup									pH 7.	41
3)		Ш	Ш														<u> </u>		4	
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10) RELINQUISHED:	DAT	E / .	TIME	RECEIVE	D:			DATE /	TIME	ac	Data P	ackage	LAR	JSE OI	JLY	l	COOL	ER TF	MP _3. φ	-c
BERNIE OSILKA 2/23 RELINOUISHED: EX	DAT	Ε/	14:(D ED	Ex Voi	17851 124 22 25 FF	<u>O</u> √.		time 3. <i>0</i> 0	Leve	el II	0		PV	vC	/illian			15B0303 andfill	
RELINQUISHED:	DAT	E /	TIME	RECEIVE	:U: ´			DATE /	IIME	Leve		0		Re	cd: 02	2/24/2	015	Due: (03/10/2 <u>01</u> 5	Sage 10 of 12

Sample Condition Form#: F1302 Rev. #: 4.0 Effective:Dec 04, 2014 Page 1 of 1



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804) 358-8295 Fax: (804) 358-8297

		Sán	nple Co	nditions Checklist	151	PWC Prince W	illiam	15B0303 n County Landfill			
Opene	d by: (Initials)	- IVC		Lab ID No.: Date Cooler Opened:	15B0303	Recd: 02	/24/20	15	Due: 03/10/2015 v130325002		
1.	How were samp	ples received?	Fed Ex UPS Courier Walk In	Ř 		YES	NO	N/A			
2.	Were custody s										
3.	-	•		ct at the date and time of arrival	?	Z					
4.	Are the custody			•		Æ					
5.	Do all bottle lab	-		ers?		Æ					
6.	Are the sample:	s received on id	ce?			Æ					
7.	Is the temperate (above freezing		oresentative s	sample within acceptable limits?							
8.	Are all samples	within holding	time for requ	ested laboratory tests?		P					
9	Is a sufficient ar	mount of sampl	e provided to	perform the tests indicated?		P					
10	Are all samples	in proper conta	ainers for the	analyses requested?		(p					
11	Are all samples	appropriately p	preserved for	the analyses requested?		Þ					
12	Are all volatile of	organic containe	ers free of he	adspace?		<u></u>		Ø			
13	Are all TOX con	ntainers free of	headspace?								
14	Is Trip blank pro (Document if trip			le set? Circle applicable method the sample set)	:			1 EZ			
	EPA 8011	EPA 504	EPA 8260	EPA 624				1			
	RSK-175	EPA 8015 (G	RO)	EPA 8021							
	EPA 524	GRO Wiscon	sin DNR (wate	er and/or methanol trip blank must b	e provid	led)					
			<u>0</u>	COMMENTS							
									- - -		
FOR LA	AB USE ONLY:								_		
CrVI pre	eserved date/time):									
Buffer S	iol'n ID:			Analyst intials:							
1N NaC	H ID:	Of		5N NaOH ID:							



Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 3.0 Effective: Jan 14, 2014 Page 1 of 1

rder ID_____15B0303 ______ Date Performed: 24 Feb 20 6

Analyst Performing Check: P/A = Present/Absent

Metals Cyanide PH as Received Received Received Sample ID C <2 Other	Sulfide An	mmonia TK	(N Phos,	Tot NO3+NO2	DRO	Pesticide (8081/608)	SVOC (8270/625)	COD	
Sample ID O <2 Other LE > 12 Other LE	PH as H Received H Received H H	other E S < 2 Other	pHas Received	(1sn/pe as Hampe like it) < 2 Other Like it)	pH as Roceived Hd Full 2 Other L	Res.Clas Received D S S S S S S S S S S S S S S S S S S S	Res.Clas Received	Received The Control of the Control	Other Hall
Sample ID S <2 Other = > 12 Other =	>9 Other 🗒 🖁 <2	Other 분분 <2 Other	r 造 <2 Other	분분 < 2 Other 분분	<2 Other 분분	Present Absent 25 3	Present Absent & E	くて Other 臣告	Other EE
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laOH ID:	HCL ID:
12SO4 ID:	HNO3 ID:



Certificate of Analysis

Final Report

Laboratory Order ID 15C0060

Prince William County Client Name:

Date Received:

5 County Complex Court Suite 250

March 9, 2015 16:52 Date Issued:

Prince William, Virginia 22192

Project Number:

March 4, 2015 10:21

Submitted To:

Bernard C. Osilka

Purchase Order:

DP153405

[none]

Client Site I.D.: Balls Ford Road Pond 1

Enclosed are the results of analyses for samples received by the laboratory on 03/04/2015 10:21. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely.

Ted Soyars

Laboratory Manager

150/0/019

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.







Certificate of Analysis

Final Report

Laboratory Order ID 15C0060

Client Name:

Prince William County

Date Received:

March 4, 2015 10:21

5 County Complex Court Suite 250

Date Issued:

March 9, 2015 16:52

Prince William Virginia, 22192

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road Pond 1

Purchase Order:

DP153405

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 1	15C0060-01	Waste Water	02/23/2015 13:00	03/04/2015 10:21



Certificate of Analysis

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5 County Complex Court Suite 250

Date Issued:

March 9, 2015 16:52

Prince William Virginia, 22192

Project Number:

[none]

Submitted To:

Bernard C. Osilka

Purchase Order:

DP153405

Client Site I.D.:

Balls Ford Road Pond 1

-Analytical Results Pond 1

Laboratory Sample ID:

15C0060-01

Date/Time Sampled:

Sample I.D.

02/23/2015 13:00

Sample Prep Reporting

Analysis

Date/Time Date/Time Limit Parameter Samp ID Method Result Qual D.F. Analyst Wet Chemistry Analysis 0.10 03/09/15 13:22 03/09/15 13:22 Nitrate+Nitrite as N 01 SM22 0.28 mg/L LAO 4500-NO3F-2011 03/09/15 13:22 01 0.60 03/09/15 13:22 TLA Nitrogen, Total Calc 11.8 mg/L 03/09/15 11:47 TKN as N 01 EPA351.2 R2.0 11.5 mg/L 0.50 03/09/15 11:47 TLA

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
15C0060-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYC0112	SYC0170	AC50033
15C0060-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYC0155	SYC0181	AC50034



Certificate of Analysis

Final Report

Laboratory Order ID 15C0060

Client Name:

Prince William County

Date Received:

March 4, 2015 10:21

5 County Complex Court Suite 250 Prince William Virginia, 22192

Date Issued:

March 9, 2015 16:52

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road Pond 1

Purchase Order:

DP153405

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYC0112 - No Prep Wet Chem										
Blank (BYC0112-BLK1)				Prepared	& Analyzed	d: 03/09/2	015	-11		
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYC0112-BS1)				Prepared	& Analyzed	d: 03/09/2	015			
TKN as N	10.5 mg/L	0.50	mg/L	10.0		105	90-110			
LCS Dup (BYC0112-BSD1)				Prepared	& Analyzed	d: 03/09/2	015			
TKN as N	10.4 mg/L	0.50	mg/L	10.0		104	90-110	0.680	20	
Matrix Spike (BYC0112-MS1)	Sour	ce: 15C0061	1-08	Prepared	& Analyze	d: 03/09/2	015			
TKN as N	11.2 mg/L	0.50	mg/L	10.0	0.99 mg/L	102	90-110			
Matrix Spike (BYC0112-MS2)	Sour	ce: 15C006	1-10	Prepared	& Analyzed	d: 03/09/2	015			
TKN as N	11.9 mg/L	0.50	mg/L	10.0		119	90-110			М
Matrix Spike Dup (BYC0112-MSD1)	Sour	ce: 15C006 ⁻	1-08	Prepared	& Analyzed	d: 03/09/2	015			
TKN as N	11.2 mg/L	0.50	mg/L	10.0	0.99 mg/L	102	90-110	0.294	20	
Matrix Spike Dup (BYC0112-MSD2)	Sour	ce: 15C006 ⁻	1-10	Prepared	& Analyzed	d: 03/09/2	015			
TKN as N	12.1 mg/L	0.50	mg/L	10.0		121	90-110	1.96	20	М
Batch BYC0155 - No Prep Wet Chem										
Blank (BYC0155-BLK1)				Prepared	l & Analyze	d: 03/09/2	015	A		
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							
LCS (BYC0155-BS1)				Prepared	l & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	2.46 mg/L	0.1	mg/L	2.50		98.4	80-120			



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5 County Complex Court Suite 250 Prince William Virginia, 22192 Date Issued:

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Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road Pond 1

Purchase Order:

DP153405

Wet Chemistry Analysis - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Batch BYC0155 - No Prep Wet Chem										
LCS Dup (BYC0155-BSD1)				Prepare	d & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	2.46 mg/L	0.1	mg/L	2.50		98.3	80-120	0.0407	20	
Matrix Spike (BYC0155-MS1)	Sour	ce: 15C007	3-05	Prepare	d & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	4.97 mg/L	0.10	mg/L	2.50	1.99 mg/L	119	75-125			
Matrix Spike (BYC0155-MS2)	Sour	ce: 15C012	1-03	Prepare	d & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	6.44 mg/L	0.10	mg/L	2.50	3.47 mg/L	119	75-125			
Matrix Spike Dup (BYC0155-MSD1)	Sour	ce: 15C007	3-05	Prepare	d & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	4.93 mg/L	0.10	mg/L	2.50	1.99 mg/L	118	75-125	0.768	20	
Matrix Spike Dup (BYC0155-MSD2)	Soui	ce: 15C012	1-03	Prepare	d & Analyze	d: 03/09/2	015			
Nitrate+Nitrite as N	6.49 mg/L	0.10	mg/L	2.50	3.47 mg/L	121	75-125	0.866	20	



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5 County Complex Court Suite 250

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Prince William Virginia, 22192

Bernard C. Osilka

Project Number:

[none]

Submitted To:

Purchase Order:

DP153405

Client Site I.D.:

Balls Ford Road Pond 1

Certified Analyses included in this Report

Certifications **Analyte**

EPA351.2 R2.0 in Non-Potable Water

TKN as N

VELAP,NC

SM22 4500-NO3F-2011 in Non-Potable Water

Nitrate+Nitrite as N

VELAP

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2015
NC	North Carolina DENR	495	12/31/2015
PADEP	NELAC-Pennsylvania	001	10/31/2015
VELAP	NELAC-Virginia Certificate #7656	460021	06/14/2015
WVDEP	West Virginia DEP	350	11/30/2015



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March 4, 2015 10:21

5 County Complex Court Suite 250

Prince William Virginia, 22192

Date Issued:

March 9, 2015 16:52

Submitted To:

Bernard C. Osilka

Project Number:

[none]

Client Site I.D.:

Balls Ford Road Pond 1

Purchase Order:

DP153405

Summary of Data Qualifiers

M Matrix spike recovery is outside established acceptance limits

RPD Relative Percent Difference

Qual Qualifers

-RE Denotes s

Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.



1941 REYMET ROAD RICHMOND, VIRGINIA 23237 (804) 358-8295 PHONE (804)358-8297 FAX

Chain of Custody Form at 01331 Rev. 1.0 Effectives Feb 14, 2014

LABORATO		ے۔ 35.1	NC.	4			CHA	N OF	CUS	TO	YC								PAGE_	OF	L
COMPANY NAME: PINC BY			for	RAD	IM	OICE TO	: «		S \$	11/	Ę		PR	OJECT	NAM	E/Quot	te#: β	Mels	Fonso	CIAN)
CONTACT: BERNIE C	251					OICE CO	NTACT	Γ: ∢		-			SIT	E NAM	E: B	الله	Falls	PAR	a. Pol		
ADDRESS: 13000 BALLS		002		RADO	IN	OICE AD	DRESS): E		_			PR	OJECT	NUM	BER:					
PHONE #703-721-7966	M	NA	NST)	ar, VA	IN	OICE PH	ONE #	:			-		P.0). #:							
FAX# 703-792-4617		_		EMAIL: {	30511	KA @	OWC	Carl	ans.	•			Pre	treatm	ent Pro	gram:					
Is sample for compliance reporting	ıg?	(Y	ES	NO		is sample	from a	chlori	nated a	qpp	ly?	YES	NO				PWS I	.D. #			
SAMPLER NAME (PRINT):	0	ス	e l	210	SA	MPLER S	GNAT	URE:	K		0/	V71	40	£			Tum /	ronna	d Time: A	A Day(s)
Matrix Codes: WW=Waste Water/Storm Wat	er G	W-G	roun	d Water DW	Drinking '	Water S=Soli	rSolids C	R-Orga	nic ArAi	WP	Wilpe O	[-Other_							CO	MMENTS	
	Γ	Г	ड्ड									AN	ALYSI	S / (PR	ESER	VATIV	E)		CHOCOGO	Codes: N-Net te Actd S=Sulfari	in Add
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CLIENT SAMPLE I.D.			용	Composile Start Date	Composite Start Time	Grab Date or Composile Stop Date	Grab Time or Composite Stop Time	9	Matrix (See Codes)	Number of Containers				PNOS	1	A SE	₹	13	1/		
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				10						Lev	el IV	<u> </u>	닉	s Ro	eca: (J3/U4	/2013	Du	L. 05/00	130325002	

Sample Condition Form#: F1302 Rev. #: 4.0 Effective:Dec 04, 2014 Page 1 of 1

Page 9 of 10



	1941 R			ditions Checklist		PWC Prince W		Cou		B0303 dfill	
Opene	d by: (Initials)	11/		Lab ID No.: Date Cooler Opened:	15B0303	Recd: 02	/24/20)15 I)ue: 03/	10/2015 v130325002	
1.	How were sam	ples received?	Fed Ex P	3		<u>YES</u>	<u>NO</u>	<u>N/A</u>			
2.	Were custody:	seals used?	Walk In	j		(P)					
	•		ken and intact a	at the date and time of arriva	1?	,		_			
4.	•	•			•	′					
5.			•	'_							
6.	Are the sample	es received on id	e?			(_	_			
7.	Is the temperat	ure blank or rep		nple within acceptable limits?	•	بحر آگاخ					
8.	Are all samples	within holding	time for request	led laboratory tests?							
9	Is a sufficient a	mount of sampl	e provided to pe	erform the tests indicated?		, 2					
10	Are all samples	s in proper conta	iners for the an	alyses requested?							
11	Are all samples	appropriately p	reserved for the	e analyses requested?							
12	Are all volatile	organic containe	ers free of head	space?				\square			
13	Are all TOX co	ntainers free of	headspace?					(Ø			
14					d:			Σ.			
	EPA 8011	EPA 504	EPA 8260	EPA 624				ſ			
	RSK-175	EPA 8015 (G	RO)	EPA 8021							
	EPA 524	GRO Wiscons	sin DNR (water	and/or methanol trip blank must	be provid	tea)					
1. How were samples received? Fed Ex UPS Courier Walk In 2. Were custody seals used? 3. If yes, are custody seals unbroken and intact at the date and time of arrival? 4. Are the custody papers filled out completely and correctly? 5. Do all bottle labels agree with custody papers? 6. Are the samples received on ice? 7. Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) 8. Are all samples within holding time for requested laboratory tests? 9 Is a sufficient amount of sample provided to perform the tests indicated? 10 Are all samples in proper containers for the analyses requested? 11 Are all samples appropriately preserved for the analyses requested? 12 Are all volatile organic containers free of headspace? 13 Are all TOX containers free of headspace? 14 Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set) EPA 8011 EPA 504 EPA 8260 EPA 624 RSK-175 EPA 8015 (GRO) EPA 8021											
TA	nple for	Total	Hitiger	* * * * * * * * * * * * * * * * * * * *		Pı	ince `			nty Land Due: 03/0	
CrVI pre	eserved date/time	o:									
Buffer S	Sol'n ID:	-		Analyst intials:							
1N NaO)H ID:	or		5N NaOH ID:	-	THIS DOCUM	ENT IS UI	CONTRO F1302 S	_	PRINTED	10

WATER SOIL

Sample Preservation Log

Sample Preservation Log Effective: Jan 14, 2014

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Order ID	15B0303	15C0060	ļ

Date Performed: 24 FEB 70 5

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	erID	ß	letal	s	C	yani	de		Sulfi					TKN		Phos, To			s, Tot NO3+NO2			DRO			Pesticide (8081/608)			(8	SVO 3270/6		СОД						
Sample ID	Container	pH Rece < 2	as lved Other	Final pH (if adjust.)	pl Rec > 12	l as elved Other	Final ptf	R	pH as received Other	Final pH (If actual.)	Rec	Has ceived Other	(1 setjas r) Flast pet	P Res	H as relived Other	Final ptf (If adjust.)	Re-	H as celved Other	Final pti Of adjust.)	Ret	Has sived Other	Final pH (If adjust.)	Ret <2	H es colved Other	Final pH (pf adjust.)	Res. Reco	Cl as rhed Absent	PA TE	Res Rec Presen	.Cl as cived Absent	2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	pH Reca	as ived Other	Pinal pH (If adjust.)	Raca	as rived Other	First pH (Hadjust.)
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